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## PATENT ABSTRACTS OF JAPAN

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**30.12.96 KR 96 9676958**(71) Applicant: **SAMSUNG DISPLAY DEVICES CO LTD**(72) Inventor: **RYU KANSEI**  
**RYU SHOKAN**(54) **LIGHT-ORIENTATING COMPOSITION,  
ORIENTATION FILM COMPRISING THE SAME  
AND LIQUID CRYSTAL DISPLAY ELEMENT  
HAVING THE ORIENTATION FILM**

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(57) Abstract:

**PROBLEM TO BE SOLVED:** To obtain the subject composition comprising a cinnamate or coumarin polymer and a specific polyimide, capable of forming orientation films excellent in orientativity, thermal stability and tilted angle characteristics, and useful for liquid crystal display elements.

**SOLUTION:** The light-orientating composition comprises (A) a cinnamate or coumarin polymer and (B) a polymer comprising (B<sub>1</sub>) a polyimide having alkyl groups at both the ends or (B<sub>2</sub>) a polyamide having a structure of the formula {R<sub>1</sub> is a 3-10C cycloalkyl [substituted by a group (G) such as a 1-10C alkyl, an aromatic group or a (substituted) amino], a (G-substituted) 3-10C cycloalkenyl, etc.; R<sub>2</sub> is R<sub>1</sub>, a (G-substituted) aromatic ring; X<sub>1</sub> is COO, O, OCO; R<sub>3</sub> is a 3-20C alkyl; (m<sub>1</sub>)<sub>≅</sub>0; (n<sub>1</sub>)<sub>≅</sub>1; (m<sub>1</sub>):(n<sub>1</sub>) is 1:99 to 20:80} in an A:B weight ratio of e.g. 99:1 to 80:20.

